

FIGURE 1

# Reaction Microarrays

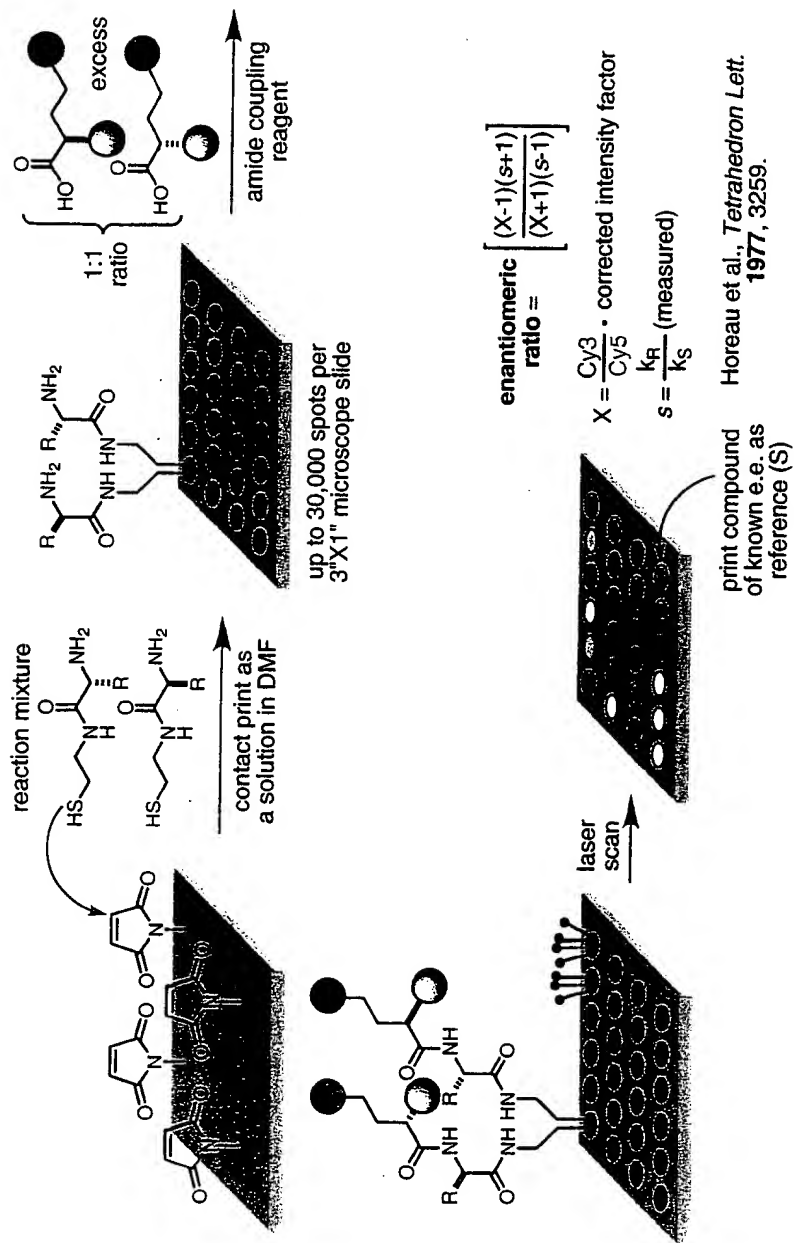
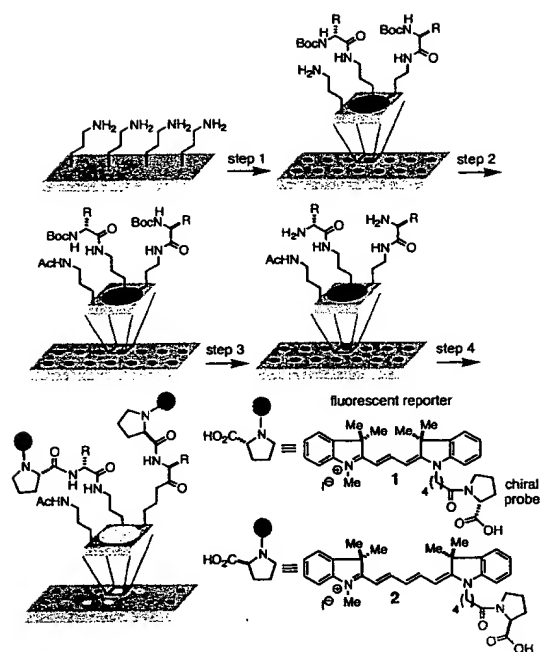


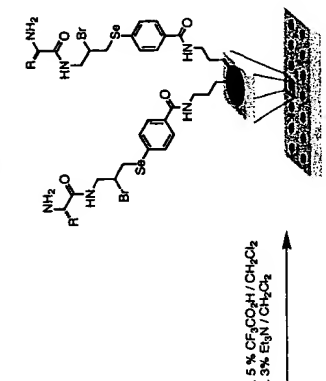
FIGURE 2

4/27



Reagents and conditions: step 1)  $\text{BocHNCH(R)CO}_2\text{H}$ , PyAOP,  $^i\text{Pr}_2\text{NEt}$ , DMF;; step 2)  $\text{Ac}_2\text{O}$ , pyridine; step 3) 10%  $\text{CF}_3\text{CO}_2\text{H}$  and 10%  $\text{Et}_3\text{SiH}$  in  $\text{CH}_2\text{Cl}_2$ , then 3%  $\text{Et}_3\text{N}$  in  $\text{CH}_2\text{Cl}_2$ ; step 4) Pentafluorophenyl diphenylphosphinate,  $^i\text{Pr}_2\text{NEt}$ , 1:1 mixture of 1 and 2, DMF,  $-20^\circ\text{C}$ .

FIGURE 4



### FIGURE 5

# Attachment of amino acids as their allyl amides to nitrene-functionalized microspheres

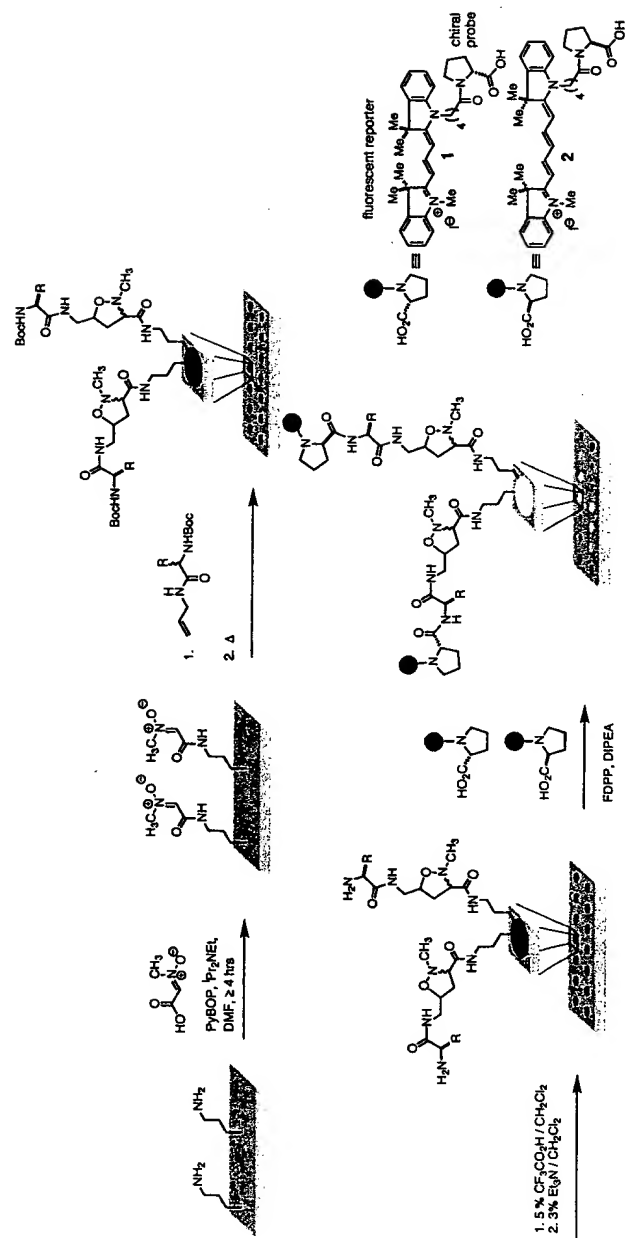


FIGURE 6

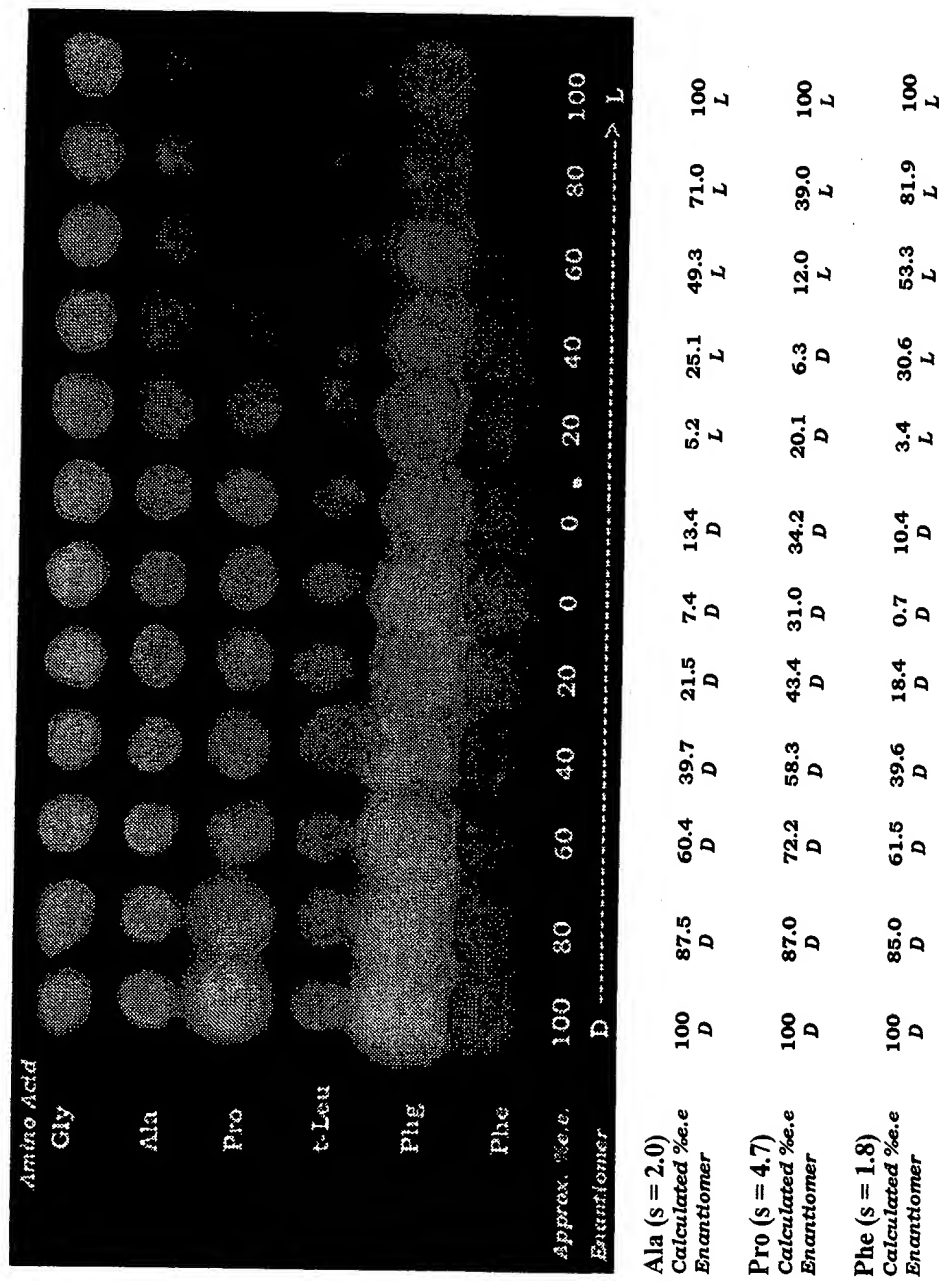


FIGURE 12

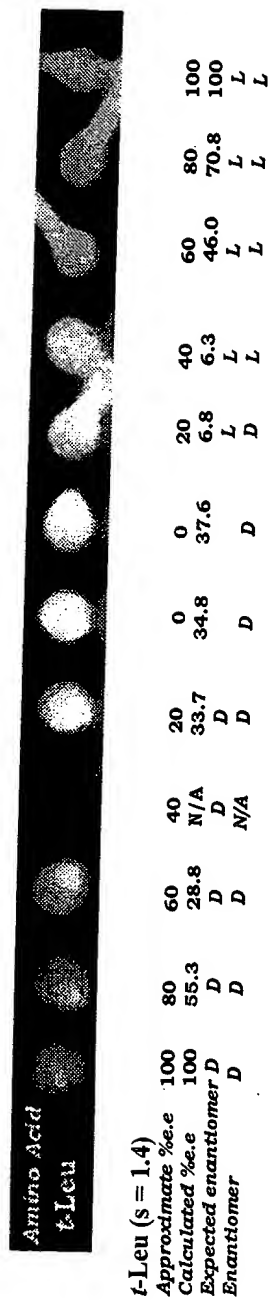


FIGURE 13

Entry	Amino Acid	Actual <sup>1</sup> sec																				Leuantiomer
		100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100
1	Gly	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
																						Glycine
2	Ala	100	91	80	67	53	55	29	22	21	12	0	12	24	32	42	61	60	71	76	90	100
																						Alanine
3	Val	100	89	79	71	53	52	29	31	20	12	0	13	25	34	42	53	57	76	77	92	100
																						Valine
4	Leu	100	90	80	70	60	50	36	30	20	12	0	15	30	35	47	54	62	73	79	90	100
																						Leucine
5	Pro	100	89	82	73	65	61	45	35	25	14	0	6	21	31	42	43	67	75	85	93	100
																						Proline
6	Ser	100	91	77	65	55	43	40	37	27	13	0	11	34	34	45	61	63	75	84	88	100
																						Serine
7	Cys	100	84	79	73	60	46	49	41	-1	0	-1	40	32	46	54	65	68	77	83	100	
																						S-Acetylmethylcysteine

FIGURE 14



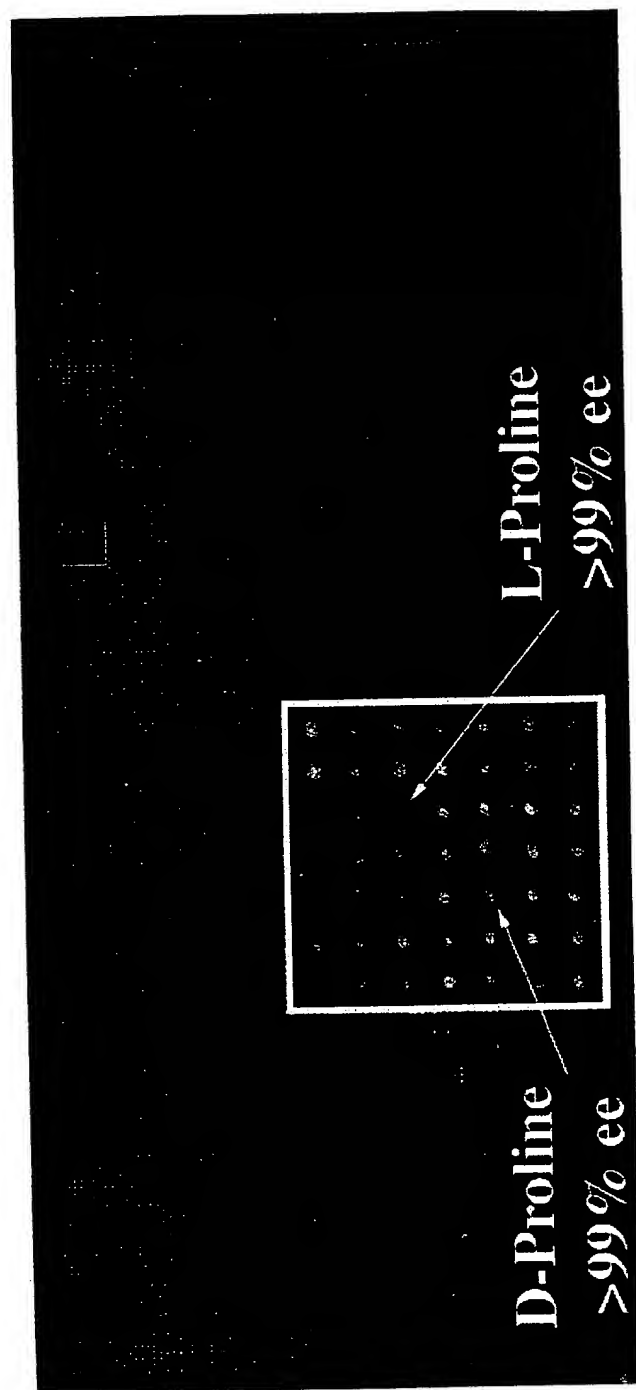


FIGURE 15

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